PCT09

```
              RAW SEQUENCE LISTING                    DATE: 11/20/2002
              PATENT APPLICATION:  US/09/868,293A     TIME: 13:00:49

              Input Set : A:\1641-102 Sequence listing.TXT
              Output Set: N:\CRF4\11202002\I868293A.raw


         3  <110> APPLICANT: CHIRON SpA
         5  <120> TITLE OF INVENTION: CHLAMYDIA TRACHOMATIS ANTIGENS
W-->     0  <130> FILE REFERENCE:
C-->     7  <140> CURRENT APPLICATION NUMBER: US/09/868,293A
C-->     8  <141> CURRENT FILING DATE: 2001-06-15
        10  <150> PRIOR APPLICATION NUMBER: GB-9828000.1
        11  <151> PRIOR FILING DATE: 1998-12-18
        13  <160> NUMBER OF SEQ ID NOS: 15
        15  <170> SOFTWARE: SeqWin99, version 1.02
        17  <210> SEQ ID NO: 1
        18  <211> LENGTH: 9
        19  <212> TYPE: PRT
        20  <213> ORGANISM: Chlamydia trachomatis
        22  <400> SEQUENCE: 1
        23  Ser Lys Glu Thr Phe Gln Arg Asn Lys
        24  1               5
        26  <210> SEQ ID NO: 2
        27  <211> LENGTH: 10
        28  <212> TYPE: PRT
        29  <213> ORGANISM: Chlamydia trachomatis
        31  <400> SEQUENCE: 2
        32  Thr Thr Glu Ser Leu Glu Thr Leu Val Glu
        33  1               5                   10
        35  <210> SEQ ID NO: 3
        36  <211> LENGTH: 18
        37  <212> TYPE: PRT
        38  <213> ORGANISM: Chlamydia trachomatis
        40  <400> SEQUENCE: 3
        41  Leu Ala Val Ser Ser Gly Asp Gln Glu Val Ser Gln Glu Asp Leu Leu
        42  1               5                   10                  15
        44  Lys Glu
        47  <210> SEQ ID NO: 4
        48  <211> LENGTH: 12
        49  <212> TYPE: PRT
        50  <213> ORGANISM: Chlamydia trachomatis
        52  <220> FEATURE:
W-->    53  <221> NAME/KEY: Xaa
        54  <222> LOCATION: 1
        55  <223> OTHER INFORMATION: Xaa is any amino acid
        57  <400> SEQUENCE: 4
W-->    58  Xaa Pro Ala Gly Asn Pro Ala Phe Pro Val Ile Pro
        59  1               5                   10
        61  <210> SEQ ID NO: 5
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RAW SEQUENCE LISTING   DATE: 11/20/2002
PATENT APPLICATION: US/09/868,293A   TIME: 13:00:49

Input Set : A:\1641-102 Sequence listing.TXT
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 62 <211> LENGTH: 10
 63 <212> TYPE: PRT
 64 <213> ORGANISM: Chlamydia trachomatis
 66 <400> SEQUENCE: 5
 67 Ala Lys Thr Arg Thr Leu Lys Gly Asp Gly
 68 1               5                   10
 70 <210> SEQ ID NO: 6
 71 <211> LENGTH: 11
 72 <212> TYPE: PRT
 73 <213> ORGANISM: Chlamydia trachomatis
 75 <400> SEQUENCE: 6
 76 Ser Asp Ser Ser His Asn Leu Leu Tyr Asn Lys
 77 1               5                   10
 79 <210> SEQ ID NO: 7
 80 <211> LENGTH: 18
 81 <212> TYPE: PRT
 82 <213> ORGANISM: Chlamydia trachomatis
 84 <400> SEQUENCE: 7
 85 Val Leu Leu Tyr Ser Gln Ala Ser Trp Asp Gln Arg Ser Lys Ala Asp
 86 1               5                   10                  15
 88 Ala Leu
 91 <210> SEQ ID NO: 8
 92 <211> LENGTH: 11
 93 <212> TYPE: PRT
 94 <213> ORGANISM: Chlamydia trachomatis
 96 <220> FEATURE:
 97 <221> NAME/KEY: Xaa        W-->
 98 <222> LOCATION: 8
 99 <223> OTHER INFORMATION: Xaa is Ala or Gln
101 <220> FEATURE:
102 <221> NAME/KEY: Xaa        W-->
103 <222> LOCATION: 10
104 <223> OTHER INFORMATION: Xaa is Val or Asp
106 <400> SEQUENCE: 8
107 Lys Ala Val Tyr Val Gln Asp Xaa Glu Xaa Gln        W-->
108 1               5                   10
110 <210> SEQ ID NO: 9
111 <211> LENGTH: 9
112 <212> TYPE: PRT
113 <213> ORGANISM: Chlamydia trachomatis
115 <220> FEATURE:
116 <221> NAME/KEY: Xaa        W-->
117 <222> LOCATION: 3
118 <223> OTHER INFORMATION: Xaa is any amino acid
120 <220> FEATURE:
121 <221> NAME/KEY: Xaa        W-->
122 <222> LOCATION: 4
123 <223> OTHER INFORMATION: Xaa is any amino acid
125 <400> SEQUENCE: 9
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RAW SEQUENCE LISTING   DATE: 11/20/2002
PATENT APPLICATION: US/09/868,293A   TIME: 13:00:49

Input Set : A:\1641-102 Sequence listing.TXT
Output Set: N:\CRF4\11202002\I868293A.raw

```
W--> 126 Lys Asp Xaa Xaa Thr Asn Gly Gln Arg
     127 1                5
     129 <210> SEQ ID NO: 10
     130 <211> LENGTH: 10
     131 <212> TYPE: PRT
     132 <213> ORGANISM: Chlamydia trachomatis
     134 <220> FEATURE:
W--> 135 <221> NAME/KEY: Xaa
     136 <222> LOCATION: 8
     137 <223> OTHER INFORMATION: Xaa is any amino acid
     139 <220> FEATURE:
W--> 140 <221> NAME/KEY: Xaa
     141 <222> LOCATION: 10
     142 <223> OTHER INFORMATION: Xaa is Tyr or Gly
     144 <400> SEQUENCE: 10
W--> 145 Met Ser Lys Gly Gly Gln Thr Xaa Asp Xaa
     146 1                5                   10
     148 <210> SEQ ID NO: 11
     149 <211> LENGTH: 10
     150 <212> TYPE: PRT
     151 <213> ORGANISM: Chlamydia trachomatis
     153 <220> FEATURE:
W--> 154 <221> NAME/KEY: Xaa
     155 <222> LOCATION: 1
     156 <223> OTHER INFORMATION: Xaa is any amino acid
     158 <220> FEATURE:
W--> 159 <221> NAME/KEY: Xaa
     160 <222> LOCATION: 3
     161 <223> OTHER INFORMATION: Xaa is any amino acid
     163 <400> SEQUENCE: 11
W--> 164 Xaa Gln Xaa Glu Asn Gly Ile Val Gly Leu
     165 1                5                   10
     167 <210> SEQ ID NO: 12
     168 <211> LENGTH: 12
     169 <212> TYPE: PRT
     170 <213> ORGANISM: Chlamydia trachomatis
     172 <400> SEQUENCE: 12
     173 Met Pro Ala Gly Asn Pro Ala Phe Pro Val Ile Pro
     174 1                5                   10
     176 <210> SEQ ID NO: 13
     177 <211> LENGTH: 10
     178 <212> TYPE: PRT
     179 <213> ORGANISM: Chlamydia trachomatis
     181 <220> FEATURE:
W--> 182 <221> NAME/KEY: Xaa
     183 <222> LOCATION: 3
     184 <223> OTHER INFORMATION: Xaa is Asp or Lys
     186 <220> FEATURE:
W--> 187 <221> NAME/KEY: Xaa
```

```
        188 <222> LOCATION: 6
        189 <223> OTHER INFORMATION: Xaa is Lys or Phe
        191 <400> SEQUENCE: 13
W--> 192 Val Ala Xaa Asn Ile Xaa Tyr Asn Glu Glu
        193 1               5                  10
        195 <210> SEQ ID NO: 14
        196 <211> LENGTH: 5
        197 <212> TYPE: PRT
        198 <213> ORGANISM: Chlamydia trachomatis
        200 <400> SEQUENCE: 14
        201 Leu Pro Val Gly Asn
        202 1               5
        204 <210> SEQ ID NO: 15
        205 <211> LENGTH: 8
        206 <212> TYPE: PRT
        207 <213> ORGANISM: Chlamydia trachomatis
        209 <220> FEATURE:
W--> 210 <221> NAME/KEY: Xaa
        211 <222> LOCATION: 6
        212 <223> OTHER INFORMATION: Xaa is Ser or Ala
        214 <220> FEATURE:
W--> 215 <221> NAME/KEY: Xaa
        216 <222> LOCATION: 8
        217 <223> OTHER INFORMATION: Xaa is Lys or Ser
        219 <400> SEQUENCE: 15
W--> 220 Ser Glu Lys Arg Lys Xaa Asn Xaa
        221 1               5
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/20/2002
PATENT APPLICATION: US/09/868,293A   TIME: 13:00:50

Input Set : A:\1641-102 Sequence listing.TXT
Output Set: N:\CRF4\11202002\I868293A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 1
Seq#:8; Xaa Pos. 8,10
Seq#:9; Xaa Pos. 3,4
Seq#:10; Xaa Pos. 8,10
Seq#:11; Xaa Pos. 1,3
Seq#:13; Xaa Pos. 3,6
Seq#:15; Xaa Pos. 6,8

VERIFICATION SUMMARY   DATE: 11/20/2002
PATENT APPLICATION: US/09/868,293A   TIME: 13:00:50

Input Set : **A:\1641-102 Sequence listing.TXT**
Output Set: **N:\CRF4\11202002\I868293A.raw**

```
L:0 M:201 W: Mandatory field data missing, <130> FILE REFERENCE
L:7 M:270 C: Current Application Number differs, Replaced Current Application Number
L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:53 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:97 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:102 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:116 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:121 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:135 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:140 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:154 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:159 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:182 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:187 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:210 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:215 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
```